

**ABSTRACT**

The invention provides a reluctance generator for an eddy current braking system in a vehicle. The reluctance generator has a field winding and a compensation winding, which induce magnetomotive forces. The magnetomotive force induced by the compensation winding balances the magnetomotive force generated by a rotor in the reluctance generator. The field winding has less inductance.

1. A reluctance generator for an eddy current braking system in a vehicle, comprising a field winding and a compensation winding, which induce magnetomotive forces. The magnetomotive force induced by the compensation winding balances the magnetomotive force generated by a rotor in the reluctance generator. The field winding has less inductance.